

# Solar System ICES

<b>Earth</b>	<b>H<sub>2</sub>O</b>
<b>Mars</b>	<b>H<sub>2</sub>O</b> , CO <sub>2</sub>
<b>Asteroids</b>	<b>H<sub>2</sub>O</b> is seen in some asteroids, as is ice with a C-H infrared signature
<b>Jupiter</b>	
Io	SO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> S?, H <sub>2</sub> O?
Europa	<b>H<sub>2</sub>O</b> , SO <sub>2</sub> , SH, CO <sub>2</sub> , O <sub>2</sub> , HC, XCN, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , carbonate salt, hydrous sulfate
Ganymede	<b>H<sub>2</sub>O</b> , SO <sub>2</sub> , SH, CO <sub>2</sub> , HC, XCN, O <sub>2</sub> , O <sub>3</sub> , hydrated and hydroxylated minerals
Callisto	<b>H<sub>2</sub>O</b> , SO <sub>2</sub> , SH, CO <sub>2</sub> , HC, XCN, hydrated and hydroxylated minerals
<b>Saturn</b>	
Mimas	<b>H<sub>2</sub>O</b>
Enceladus	<b>H<sub>2</sub>O</b>
Tethys	<b>H<sub>2</sub>O</b>
Dione	<b>H<sub>2</sub>O</b> , C, HC, O <sub>3</sub>
Rhea	<b>H<sub>2</sub>O</b> , HC?, O <sub>3</sub>
Hyperion	<b>H<sub>2</sub>O</b>
Iapetus	<b>H<sub>2</sub>O</b> , C, HC, H <sub>2</sub> S?
Phoebe	<b>H<sub>2</sub>O</b> , CO <sub>2</sub> , CN, CH
Titan	H <sub>2</sub> O, C <sub>2</sub> (CN) <sub>2</sub>
Rings	<b>H<sub>2</sub>O</b> , HC?
<b>Uranus</b>	
Miranda	<b>H<sub>2</sub>O</b> , NH <sub>3</sub> (NH <sub>3</sub> hydrate?), hydroxylated silicates
Ariel	<b>H<sub>2</sub>O</b> , CO <sub>2</sub> , OH?
Umbriel	<b>H<sub>2</sub>O</b>
Titania	<b>H<sub>2</sub>O</b> , C, HC, OH?
Oberon	<b>H<sub>2</sub>O</b> , C, HC, OH?
<b>Neptune</b>	
Triton	N <sub>2</sub> , CH <sub>4</sub> , CO, CO <sub>2</sub> , H <sub>2</sub> O
<b>Pluto</b>	N <sub>2</sub> , CH <sub>4</sub> , CO, H <sub>2</sub> O
Charon	<b>H<sub>2</sub>O</b> , NH <sub>3</sub> (NH <sub>3</sub> hydrate?)
<b>Kuiper Belt Objects</b>	<b>H<sub>2</sub>O</b> is seen on some Kuiper Belt objects; NH <sub>3</sub> is seen on Quaoar
<b>Comets</b>	<b>H<sub>2</sub>O</b> and a variety of coma (gas-phase) molecules

NOTES: HC = hydrocarbon of unknown composition; XCN = contribution from a chemical species with a C-N triple bond; SH = contribution from a chemical species with an S-H single bond